

INTRODUCTION TO GENERAL WATER TREATMENT AND MONITORING

"Ensuring Safe and Efficient Water Management Through Effective Treatment and Monitoring Practices"

Schedule

Date	Venue	Fees (Online)
18 - 19 Aug 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Water treatment and monitoring are essential for ensuring safe and sustainable water usage across industrial, commercial, and municipal applications. Proper water management prevents contamination, supports regulatory compliance, and optimizes operational efficiency.

This intensive 2-day online training provides participants with foundational knowledge and practical skills in water treatment processes and monitoring techniques. The program covers key treatment methods, water quality analysis, monitoring procedures, and best practices for maintaining safe and compliant water systems.

Objectives

By the end of this course, participants will be able to:

- Understand basic principles of water treatment and monitoring
- Identify water quality parameters and relevant testing methods
- Apply treatment processes to improve water quality
- Monitor water systems for compliance and operational efficiency
- Troubleshoot common water treatment issues
- Promote sustainable water management practices

Why Attend

- Ensure compliance with water quality and environmental regulations
- Minimize risks associated with contaminated water
- Enhance operational efficiency in water management
- Improve knowledge of water treatment technologies and monitoring methods
- Strengthen workplace safety and environmental responsibility
- Gain practical tools for water quality analysis and control

Target Audience

This program is designed for:

- Facility and plant managers
- HSE professionals and water quality officers
- Maintenance engineers and technicians
- Operations personnel responsible for water systems
- Environmental and compliance officers
- Professionals seeking foundational knowledge in water treatment

Individual Benefits

Key competencies that will be developed include:

- Understanding water treatment principles and processes
- Identifying and monitoring key water quality parameters
- Applying preventive and corrective measures for water safety
- Troubleshooting common water system issues
- Knowledge of compliance requirements and environmental standards
- Enhancing operational decision-making related to water management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved water quality and operational efficiency
- Compliance with environmental and regulatory standards
- Reduced risk of water-related operational incidents
- Cost savings through optimized water treatment practices
- Enhanced safety and sustainability culture within the organization
- Better monitoring and documentation of water quality

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Principles of water treatment and monitoring
- Case Studies – Real-world applications in industrial and municipal water systems
- Workshops – Practical exercises in water quality testing and treatment methods
- Peer Exchange – Group discussions on challenges and best practices
- Tools – Water quality monitoring templates, treatment checklists, and troubleshooting guides

Course Outline

Detailed 2-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules Coffee Breaks: 09:30 & 11:15 Lunch Break: 01:00 – 02:00

Day 1: Fundamentals of Water Treatment

Module 1: Introduction to Water Treatment (07:30 – 09:30)

- Importance of water quality management
- Overview of water treatment processes

Module 2: Water Quality Parameters (09:45 – 11:15)

- Physical, chemical, and biological indicators
- Sampling and testing techniques

Module 3: Treatment Methods (11:30 – 01:00)

- Filtration, disinfection, and chemical treatment
- Best practices for effective water treatment

Module 4: Workshop – Analyzing Water Samples (02:00 – 03:30)

- Practical exercises in water quality testing

Day 2: Monitoring and Compliance

Module 1: Water Monitoring Techniques (07:30 – 09:30)

- On-site monitoring tools and procedures
- Data recording and interpretation

Module 2: Troubleshooting and Corrective Actions (09:45 – 11:15)

- Identifying common water quality issues
- Applying effective solutions

Module 3: Regulatory Compliance and Reporting (11:30 – 01:00)

- Local and international water standards
- Documentation and reporting procedures

Module 4: Workshop & Case Study Review (02:00 – 03:30)

- Real-world examples of water treatment challenges
- Developing an action plan for operational improvement

Certification

Participants will receive a Certificate of Completion in Introduction to General Water Treatment and Monitoring, validating their practical skills in water treatment processes, monitoring techniques, and compliance practices.

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